

## Class 1

# Building Product Information Sheet

### Product Name

AQUELLA

### Product description and its intended use

AQUELLA is a mineral waterproof coating for interior surfaces of sub-grade masonry structures, and concrete floors.

It is an inorganic powder based on white cement with a hardening accelerator, mixed with water and applied to the inside of damp walls, floors, etc. AQUELLA unites with the substrate to form a surface which is watertight from both sides, and sets rock hard with age. When applied and fully-cured is compatible with products suitable for application to concrete.

AQUELLA, when properly applied to suitable substrates and cured, will prevent water penetration into the substrate from the front face or water penetration into inside of the structure from the reverse face (water will still penetrate the substrate from the reverse face until it encounters the AQUELLA). AQUELLA is primarily used for the waterproofing of internal subgrade walls and floors, or to seal floors without or with damaged damp courses/membranes prior to laying carpet or tiles.

### Product identifier (if applicable):

Product is identified by name: AQUELLA

### Place of manufacture

New Zealand

### Legal and trading name of the manufacturer(s):

Stratmore Construction Solutions Limited

### Legal and trading name of the importer (if applicable):

### Address for service:

STREET NAME	185 Rata Street	SUBURB	Naenae
CITY, COUNTRY	Lower Hutt New Zealand	POSTCODE	5011
Website:	www.stratmore.co.nz		
Email address:	info@stratmore.co.nz		
Phone No. (if applicable):	+64 4 567 8436		
NZBN (if applicable):	9429040948867		

## Relevant Building Code clauses:

B2 Durability: Performance clauses B2.3.1(a)  
E2 External Moisture: Performance clause E2.3.2 and E2.3.3  
F2 Hazardous Building Materials: Performance clause F2.3.1

## Statement on how the building product is expected to contribute to compliance:

AQUELLA when specified and installed in accordance with the technical data sheets and the application instructions, will meet (or assist in meeting) the following provisions (clauses) of the New Zealand Building Code:

### **B2 Durability: Performance B2.3.1a** (50 years)

AQUELLA when properly applied binds to the substrate to which it is applied and will remain functional for the life of the substrate as long as the substrate remains sound and durable.

### **E2 External Moisture: Performance E2.3.2 and E2.3.3**

AQUELLA when properly applied expands minutely upon curing, ensuring a complete filling of the pores of the substrate and therefore a better bond. Once fully cured, AQUELLA will withstand water pressure on the front face and water pressure on the reverse face.

AQUELLA has been used extensively throughout Europe, in the USA and Australia as well as in New Zealand (for over 60 years) and has been approved by the following testing authorities.

Laboratories of the Building Trades and Public Works, Paris.

United States Bureau of Standards.

Institute of Civil Engineering, University of Liege, Belgium.

Laboratories of Tests and Studies of Casablanca, Morocco.

AQUELLA has been tested in to 50 times the maximum pressure prescribed by the U.S. Bureau of Standards (Sec 111 BMS-82) which is 10lb per sq. ft. (480Pa)

### **F2 Hazardous Building Materials: Performance F2.3.1**

Once completely cured, AQUELLA meets this requirement and will not present a health hazard to people.

## Limitations on the use of the building product:

AQUELLA sets rock hard with age and is not able to move or flex. If the substrate cracks, moves, subsides, shifts or similar then the AQUELLA coating could also fail due to cracking, shifting, etc.

Chemical Resistance: AQUELLA has similar performance to good concrete when exposed to chemicals (poor resistance to acids and excellent resistance to alkalis). If AQUELLA is exposed to chemicals that would normally affect concrete, then AQUELLA will also be affected, possibly causing failure. In all applications where AQUELLA will be exposed to traffic (foot and vehicle) or possible chemical exposure, it must be over coated with a suitable paint, other protective coating or resilient coverings and inspected on a regular basis to ensure the AQUELLA is not being abraded or worn.

The AQUELLA coating must not be penetrated as this could allow moisture or water through the AQUELLA. Penetrations include screws, nails, fixings, pipes, etc.

## Design requirements that would support the use of the building product:

Design of the substrate to which AQUELLA is to be applied needs to comply with the relevant NZ building standards including NZS3101 and 3109 for concrete structures and NZS4229 or NZS4230 for masonry concrete construction (where applicable in accordance with the application requirements.)

## Installation requirements:

AQUELLA must be applied in accordance with the technical data sheet and any other supporting data applicable for the project or specific substrate. For technical Data (visit <https://www.fbsltd.co.nz/product-technical-datasheets-support-material>).

The substrate must be sound and free of any defects that could affect the performance of the AQUELLA coating. This includes cracks, cavities, foreign objects (such as timber), paint, oil, grease, dirt, dust, etc. The substrate must be free of any leachate that may be carried by water including wood tannins, acids, etc that could prevent the setting of the AQUELLA and/or impact long-term performance.

The substrate must be fully saturated to a surface dry condition prior to the application of AQUELLA and if the substrate starts to dry before the AQUELLA is applied, it must be saturated again.

## Maintenance Requirements:

No maintenance is required for AQUELLA when properly applied and cured per the technical data sheet. AQUELLA applied to areas subject to wear (and properly overcoated with a protective coating/resilient covering) must be inspected if any signs of wear or degradation of the protective coating or resilient covering occur.

## Is the building product/building product line subject to warning or ban under section 26?:

Yes

No

## If yes, description of the warning or ban under section 26:

**Date:** 18 August 2023